

Evaluation Board User Guide

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RedyKit for the ADP150 LDO

FEATURES

ADP150 ultralow noise voltage regulator
All-voltage options included for evaluation
Surface-mount ADP150 parts that can be easily soldered
Additional parts for prototyping

ADP150UJZ-REDYKIT CONTENTS

1 ADP150UJ-3.3-EVALZ evaluation board, V_{OUT} = 3.3 V 1 ADP150UJ-1.8-EVALZ evaluation board, V_{OUT} = 1.8 V 5 additional ADP150 voltage options in a labeled bag

GENERAL DESCRIPTION

The ADP150UJZ-RedyKit RedyKit[™] allows simplified prototyping and evaluation and is available for every standard fixed output voltage option in the ADP150 product family. The RedyKit allows the user to evaluate all voltage options with one easy-to-order kit.

All surface-mount ADP150 parts are sorted and stored in the kit with the Analog Devices, Inc., part number and fixed output voltage clearly printed on each zip-top bag (see Figure 2).

The kit can be used in the engineering lab to evaluate required voltage options. When other voltage options need to be evaluated, a different part from the kit can be easily soldered onto one of the evaluation boards supplied with the kit.

TYPICAL APPLICATION CIRCUITS

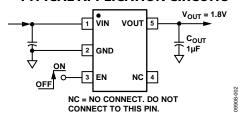


Figure 1. ADP150UJZ-RedyKit

The ADP150UJZ-RedyKit comes with fixed 1.8 V and 3.3 V evaluation boards. The kit also contains additional parts for prototyping. The kit, which contains individually packaged parts and the two evaluation boards, is packaged in an ESD foam pad inside a treated cardboard box that measures 8.7" (L) \times 7.9" (W) \times 1.75" (H), that is, 22 cm (L) \times 20 cm (W) \times 4.5 cm (H).

For additional information, also see the ADP150 evaluation board user guide, UG-054.

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REVISION HISTORY

6/11—Revision 0: Initial Version

REDYKIT PACKAGES



Figure 2. ADP150UJZ-RedyKit Package

EVALUATION BOARD SCHEMATIC AND ARTWORK

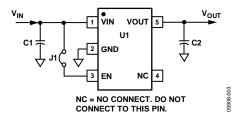


Figure 3. ADP150UJZ-RedyKit Evaluation Board Schematic

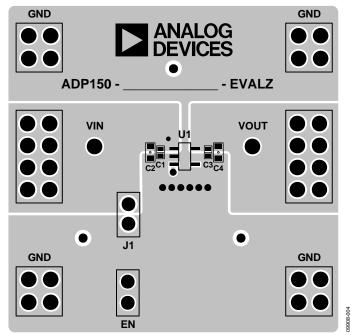


Figure 4. ADP150UJZ-RedyKit Evaluation Board Layout

ORDERING INFORMATION

REDYKIT BILL OF MATERIALS (BOM)

Table 1. ADP150UJZ-RedyKit BOM

| Qty. | Model | Output Voltage (V _{ουτ}) | Maximum Current | Description |
|------|--------------------|------------------------------------|-----------------|------------------|
| 1 | ADP150UJ-3.3-EVALZ | 3.3 V | 150 mA | Evaluation board |
| 1 | ADP150UJ-1.8-EVALZ | 1.8 V | 150 mA | Evaluation board |
| 3 | ADP150AUJZ-1.8-R7 | 1.8 V | 150 mA | 5-lead TSOT |
| 3 | ADP150AUJZ-2.5-R7 | 2.5 V | 150 mA | 5-lead TSOT |
| 3 | ADP150AUJZ-2.8-R7 | 2.8 V | 150 mA | 5-lead TSOT |
| 3 | ADP150AUJZ-3.0-R7 | 3.0 V | 150 mA | 5-lead TSOT |
| 3 | ADP150AUJZ-3.3-R7 | 3.3 V | 150 mA | 5-lead TSOT |

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ESD Caution

ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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